

# SDS SAFETY DATA SHEET

PRODUCT DESCRIPTION:	<b>Fireout CO2 Carbon Dioxide Extinguisher</b>
CODES:	E2CFO, E35CFO, E5CFO
CATEGORY:	FIRE FIGHTING APPLIANCES – CO2
REVISION DATE:	02 APRIL 2020

## SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Identifier:</b>	Fireout CO2 Carbon Dioxide Fire Extinguisher
<b>Other Means of Identification:</b>	<b>Part Number</b> Fireout CO2 Fire Extinguishers <b>E2CFO</b> 2.0kg CO2 fire extinguisher – Aluminium cylinder <b>E35CFO</b> 3.5kg CO2 fire extinguisher – Aluminium cylinder <b>E5CFO</b> 5.0kg CO2 fire extinguisher – Aluminium cylinder
<b>Recommended use of the chemical and restrictions on use:</b>	Fire extinguishing agent. Vaporising gas.
<b>Supplier Name:</b> <b>Address:</b> <b>Telephone Number:</b> <b>Emergency Number:</b> <b>Website:</b> <b>Email:</b>	Australia Wide Fire Supplies Unit 5/54 Pendlebury Road, Cardiff NSW 2285 +61 2 4954 0333 Emergency 000 AWFS +61 2 4954 0333 (9am-5pm AET, Mon-Fri) <a href="http://www.awfs.com.au">www.awfs.com.au</a> <a href="mailto:sales@awfs.com.au">sales@awfs.com.au</a>

**AUSTRALIA WIDE FIRE SUPPLIES** ABN 80393915621 UNIT 5/54 PENDLEBURY RD CARDIFF NSW 2285

**P: (+61) 02 49540333 E: sales@awfs.com.au W: www.awfs.com.au**

**SECTION 2 – HAZARDS INFORMATION****Classification of the hazardous chemical**

Classification according to the WHS Regulations Australia and the ADG Code
Classified as Dangerous – Gases Under Pressure – Compressed Gas

**Label Elements**

<b>Hazard Pictograms:</b>	
<b>Pictogram Code:</b>	<b>GHS04 Gas Cylinder</b>
<b>Signal Word:</b>	<b>WARNING</b>

**Hazard Statements**

H280 Contains gas under pressure; may explode when heated

**Precautionary Statements**

<b>Prevention:</b>	
<b>Response:</b>	
<b>Storage:</b>	P410 + P403 Protect from sunlight. Store in a well-ventilated place.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical identity of ingredients:</b>	Carbon Dioxide CO <sub>2</sub>
<b>Proportion of ingredients:</b>	100%
<b>CAS No.:</b>	124-38-9
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**SECTION 4 – FIRST AID MEASURES**

<b>Eye contact (symptoms, special &amp; medical treatment):</b>	No adverse effects expected from normal use of this product.
<b>Skin Contact (symptoms, special &amp; medical treatment):</b>	In the case of frostbite spray with water for 15 minutes. Apply sterile dressing. Obtain medical assistance.
<b>Inhalation (symptoms, special &amp; medical treatment):</b>	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility / consciousness. Victim may not be aware of asphyxiation. Under such circumstance seek immediate medical attention.
<b>Ingestion (symptoms, special &amp; medical treatment):</b>	Not an expected route of entry. In case of ingestion, immediately consume large amounts of water and induce vomiting. If irritation persists seek medical attention.

**Indication of any immediate medical attention and special treatment**

Provide general supportive measures and treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

<b>Suitable extinguishing equipment:</b>	This preparation is an extinguishing media. Use extinguishing media suitable for surround area.
<b>Specific hazards arising from the chemical:</b>	Ammonia and / or phosphorus oxides can be evolved at very high temperatures.
<b>Special protective equipment and precautions for fire fighters:</b>	Wear breathing apparatus and protective gloves. Prevent, by any means available, spillage from entering drains or water courses.
<b>Hazchem Code:</b>	Not Applicable

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures:</b>	Evacuate area. Ensure adequate air ventilation. Monitor oxygen levels. Wear self-contained breathing apparatus in confined spaces.
<b>Environmental precautions:</b>	Refer section 12.
<b>Methods and materials for containment and cleaning up:</b>	Not applicable.

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**SECTION 7 – HANDLING AND STORAGE****Precautions for Safe Handling**

<b>Safe Handling:</b>	<ul style="list-style-type: none"> <li>As a high-pressure vessel caution should be taken to prevent damage to cylinder.</li> <li>Wear protective clothing when risk of exposure occurs</li> <li>Use in a well-ventilated area</li> <li>Do not eat, drink or smoke when handling</li> <li>Always wash hands with soap and water after handling</li> <li>Avoid physical damage to containers</li> <li>Use good occupational work practice</li> </ul>
<b>Other Information:</b>	<ul style="list-style-type: none"> <li>Observe manufacturer's storage and handling recommendations contained within this MSDS</li> <li>Store away from sources of heat or ignition / naked lights</li> <li>Store in a cool, dry, well-ventilated area</li> <li>Store in original container or fire extinguisher</li> <li>Keep containers securely sealed when not in use</li> </ul>

**Conditions for Safe Storage, including any incompatibilities:**

<b>Storage requirements:</b>	<ul style="list-style-type: none"> <li>Observe manufacturer's storage and handling recommendations contained with this MSDS</li> <li>Store away from sources of heat or ignition / naked lights</li> <li>Store in a cool, dry, well-ventilated area</li> <li>Store in original container or fire extinguisher</li> <li>Keep containers securely sealed when not in use.</li> </ul>
<b>Other Information:</b>	Do Not Store at temperatures exceeding 50 Degrees C. Store in cool, dry, well-ventilated area.

**SECTION 8 – EXPOSURE**

<b>Biological Limit Values:</b>	Carbon dioxide: ILV (EU) -8H – (mg.m <sup>3</sup> ): 9,000 Carbon dioxide: ILV (EU) -8H – (ppm): 5,000 Carbon dioxide: TLV© - TWA (ppm): 5,000 Carbon dioxide: TLV© - STEL (ppm): 30,000
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**Occupational Exposure Limits**

Occupational exposure limits according to the *Workplace Exposure Standards for Airborne Contaminants*, Safe Work Australia.

Chemical Name	CAS No.	TWA <sup>1</sup>	STEL <sup>2</sup>
Carbon Dioxide	124-38-9	ppm: - 5,000 mg/m <sup>3</sup> : 9,000	ppm: - 30,000 mg/m <sup>3</sup> : - 54,000

<sup>1</sup>TWA (8-hour Time Weighted Average)-means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week. <sup>2</sup>STEL (Short Term Exposure Limit) – means the time-weighted average maximum airborne concentration of a substance calculated over a 15 minute period.

<b>Engineering controls:</b>	Check regularly for leakages.
<b>Personal protective equipment:</b>	Eye protection – safety goggles. Skin protection – protective gloves. Respiratory & Ingestion protection – ensure adequate ventilation.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance (colour, physical form, shape):</b>	Liquefied gas, colourless.
<b>Odour:</b>	None
<b>Odour Threshold:</b>	Not applicable
<b>pH:</b>	Data not available.
<b>Vapour pressure:</b>	57.3 bar at 20 degrees C.
<b>Vapour density:</b>	Gas -1.52 (air=1) Liquid -1.03 (water=1)
<b>Boiling point/range:</b>	-78.5 degrees C
<b>Freezing/melting point (specify which):</b>	-5 degrees C
<b>Evaporation rate:</b>	Data not available.
<b>Flammability:</b>	Not applicable.
<b>Flammability or Explosive limits:</b>	Not applicable.
<b>Solubility (specify solvent, e.g. water):</b>	2,000. Mg/l
<b>Relative density:</b>	Not applicable.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable.
<b>Flash point and method detecting flash point:</b>	Not applicable.
<b>Ignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	Not applicable.

**SECTION 10 – STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Refer to Section 7.
<b>Chemical stability:</b>	Stable when stored, handled and operated in accordance with this MSDS.
<b>Possibility of Hazardous reactions:</b>	See below.
<b>Conditions to Avoid:</b>	Refer to Section 7.
<b>Incompatible materials:</b>	None
<b>Hazardous decomposition products:</b>	None under normal usage

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

This product has not been tested for toxicological effects.

<b>Acute toxicity:</b>	In high concentration may cause rapid circulatory insufficiency.
<b>Skin corrosion / irritation:</b>	Chilling sensation or frost bite following acute long exposure.
<b>Serious eye damage / irritation:</b>	In liquid form CO2 can irritate eyes.
<b>Respiratory or skin sensitization:</b>	Transient cough, shortness of breath following acute exposure. Symptoms headache, nausea and vomiting. Leading to unconsciousness.
<b>Germ cell mutagenicity:</b>	Data not available.
<b>Carcinogenicity:</b>	Data not available.
<b>Reproductive toxicity:</b>	Data not available.
<b>Specific Target Organ Toxicity (STOT) – single exposure:</b>	Data not available.
<b>Specific Organ Target Toxicity (STOT) – repeated exposure:</b>	Data not available.
<b>Aspiration Hazard:</b>	Data not available.

### Information on Possible Routes of Exposure:

<b>Eye contact:</b>	In liquid form CO2 can irritate eyes.
<b>Skin contact:</b>	Mildly irritating following acute exposure.
<b>Inhalation:</b>	In High concentration may cause rapid circulatory insufficiency.
<b>Ingestion:</b>	Not an expected route of entry.

### Early Onset Symptoms Related to Exposure:

Data not available.

### Delayed Health Effect from Exposure:

Data not available.

### Exposure Levels and Health Effects:

Data not available.

### Interactive Effects:

Data not available.

### Mixture of Chemicals:

Data not available.

### Other Information:

No other information available.

**SECTION 12 – ECOLOGICAL INFORMATION****Ecotoxicity:**

Classification not determined.

<b>Persistence and degradability:</b>	Data not available.
<b>Mobility in soil:</b>	Data not available.
<b>Bioaccumulative potential:</b>	Data not available.
<b>Other adverse effects:</b>	Data not available.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

<b>Disposal methods and containers:</b>	Dispose of in compliance with national, regional and local provisions that may be in force.
<b>Physical / Chemical Properties that may affect disposal options:</b>	Not known.
<b>Effects of Sewerage:</b>	Not known.
<b>Disposal: Special precautions for landfill or incineration:</b>	None.

**SECTION 14 – TRANSPORT INFORMATION**

<b>Labels Required:</b>	 <p>2.2 Non Flammable, Non Toxic Gas</p>
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**Land Transport (ADG):**

Classification as Dangerous Goods according to the *Australian Code for the Transport of Dangerous Goods by Road & Rail (Ed 7.3, August 2014)*, National Transport Commission.

<b>UN Number:</b>	1044
<b>Proper Shipping Name:</b>	FIRE EXTINGUISHERS with compressed gas or liquefied gas.
<b>Transport Hazard Class:</b>	Class 2.2 Sub Risk Not Applicable.
<b>Packaging Group:</b>	Not applicable.
<b>Environmental hazards for Transport Purposes:</b>	Not applicable.
<b>Special precautions for user:</b>	Special Provisions: 225
<b>Hazchem Code:</b>	Not Applicable.

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**Air Transport (ICAO, IATA - DGR):**

Classification as Dangerous Goods according to the *Dangerous Goods Regulations, International Air Transport Association (IATA)*.

<b>UN Number:</b>	1044
<b>Proper Shipping Name:</b>	FIRE EXTINGUISHERS with compressed gas or liquefied gas.
<b>Transport Hazard Class:</b>	Class 2.2 Sub Risk Not Applicable.
<b>Packaging Group:</b>	Not applicable.
<b>Environmental Hazards for Transport Purposes:</b>	Not applicable.
<b>Special Precautions for user:</b>	Special Provisions: A19 Cargo Only Packing Instructions: 213 Passenger and Cargo Packing Instructions: 213
<b>Hazchem Code:</b>	Not Applicable.

**Sea Transport (IMO - IMDG):**

Classification as Dangerous Goods according to the *International Maritime Dangerous Goods Code (IMDG), International Maritime Organisation (IMO)*.

<b>UN Number:</b>	1044
<b>Proper Shipping Name:</b>	FIRE EXTINGUISHERS with compressed gas or liquefied gas.
<b>Transport Hazard Class:</b>	Class 2.2 Sub Risk Not Applicable.
<b>Packaging Group:</b>	Not applicable.
<b>Environmental Hazards for Transport Purposes:</b>	Not applicable.
<b>Special Precautions for user:</b>	EMS Number: F-C, S-V Special Provisions: 225
<b>Hazchem Code:</b>	Not Applicable.

**SECTION 15 – REGULATORY INFORMATION****Safety, health and environmental regulations / legislation for the substance or mixture**

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

**SECTION 16 – OTHER INFORMATION**

<b>Revision, Date of preparation of this MSDS:</b>	02 April 2020
<b>Disclaimer</b>	The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Australia Wide Fire Supplies shall not be held liable for any damage or loss resulting from handling or from contact with the above product.

End SDS

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